

INTERNATIONAL SEARCH REPORT

ational Application No
/GB2004/003465

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C08B37/00 C08B11/12 C08F8/14 C08F220/34 A61K31/14
A61L15/28 A01N57/34 A01N33/12 A01N59/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C08B C08F A61K A61L A01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, PAJ, WPI Data, INSPEC, BIOSIS, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	EP 1 430 915 A (ETHICON INC) 23 June 2004 (2004-06-23) page 8, lines 32-51; claims 1,6	1,7,8, 10, 14-17, 19, 21-23, 33,34,37
X	MAGNANI A ET AL: "NOVEL POLYSACCHARIDE HYDROGELS: CHARACTERIZATION AND PROPERTIES" POLYMERS FOR ADVANCED TECHNOLOGIES, JOHN WILEY AND SONS, CHICHESTER, GB, vol. 11, no. 8-12, August 2000 (2000-08), pages 488-495, XP000977322 ISSN: 1042-7147 figure 2 ----- -/--	1-3,7,8, 10, 14-23, 30,31

☒ Further documents are listed in the continuation of box C.

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* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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G document member of the same patent family

Date of the actual completion of the international search

11 November 2004

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26/11/2004

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 114 484 A (WARD WILLIAM J) 5 September 2000 (2000-09-05)	1,4-8, 10, 14-19, 21-25, 26-29, 32-41
Y	claim 1	
X	RONGHUA H ET AL: "Preparation and in vitro anticoagulant activities of alginate sulfate and its quaterized derivatives" CARBOHYDRATE POLYMERS, APPLIED SCIENCE PUBLISHERS, LTD. BARKING, GB, vol. 52, no. 1, 1 April 2003 (2003-04-01), pages 19-24, XP004402698 ISSN: 0144-8617 * The abstratc and Scheme 1 on page 20 *	1-3,5-8, 10, 14-23, 32,36-39
X	LUKASZCZYK J ET AL: "SYNTHESIS AND EVALUATION OF CATIONIC AND CATIONOGENIC POLYMERIC SORBENTS FOR REMOVING SURFACTANTS FROM AQUEOUS SOLUTIONS" MACROMOLECULAR SYMPOSIA, WILEY VCH, WEINHEIM, DE, no. 164, February 2001 (2001-02), pages 247-256, XP001063469 ISSN: 1022-1360 table 1	1,4-8, 10, 14-19, 21-23
P,Y	WO 03/086477 A (COHEN JAIMELEE IOLANI ; FINCHER KARIN MELKONIAN (US); UNIV CITY (US);) 23 October 2003 (2003-10-23) page 13, lines 13-15; claims 1-8; examples 1-9	26-29
Y	T. ABEL ET AL.: "Preparation and investigation of antibacterial carbohydrate-based surfaces" CARBOHYDRATE RESEARCH, vol. 337, 2002, XP002305074	32-41
A	the whole document	1-25,30, 31

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
EP 1430915	A	23-06-2004	US	2004120980 A1	24-06-2004
			CA	2453779 A1	19-06-2004
			EP	1430915 A1	23-06-2004
US 6114484	A	05-09-2000	US	6177017 B1	23-01-2001
WO 03086477	A	23-10-2003	WO	03086477 A2	23-10-2003

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P,Y	----- WO 03/086477 A (COHEN JAIMELEE IOLANI ; FINCHER KARIN MELKONIAN (US); UNIV CITY (US);) 23 October 2003 (2003-10-23) page 13, lines 13-15; claims 1-8; examples 1-9	26-29
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US 6114484	A	05-09-2000	US	6177017 B1	23-01-2001
WO 03086477	A	23-10-2003	WO	03086477 A2	23-10-2003